

ALUKER, Sh.M.; VASIL'YEVA, I.A.; RASOVSKIY, E.I.; SKVORTSOV, V.F.

[Electrical engineering in drawings and diagrams] Elektro-  
tekhnika v risunkakh i chertezhakh. Izd. 3., perer. i dop.  
Moskva, Energiya. Pt.2. 1964. 7 p. (MIRA 18:1)

SKVORTSOV, P. G.

SKVORTSOV, P. G. -- "Some Investigations of Congruence and Addition of Fourier Series in Orlich Space." Leningrad State Pedagogical Inst imeni A. I. Gertsen, Chair of Mathematical Analysis. Leningrad, 1955. (Dissertation for the Degree of Candidate of Physicomathematical Sciences.)

SO: Knizhnaya letopis', No. 4, Moscow, 1956

SKVORZEV, P. G.

SUBJECT USSR/MATHEMATICS/Functional analysis CARD 1/2 PG - 36!  
 AUTHOR SKVORZEV P.G.  
 TITLE On the strong convergence of La Vallée-Poussin's sums in Orlicz spaces.  
 PERIODICAL Doklady Akad. Nauk 108, 774-776 (1956)  
 reviewed 11/1956

Let  $M(u) \in \Omega$  if  $M(u)$  is defined on  $[0, +\infty)$  and there satisfies the following conditions: 1)  $M(0) = 0$ ,  $M(u)$  nonnegative, convex and strongly increasing, 2)  $\lim_{u \rightarrow 0} \frac{M(u)}{u} = 0$ ,  $\lim_{u \rightarrow \infty} \frac{M(u)}{u} = \infty$ , 3) there exist numbers  $a \geq 0$ ,  $H > 0$  such

that  $M(2u) \leq HM(u)$  if  $u \geq a$ .

Let  $L^M$  be the set of the  $2\pi$ -periodic, on  $[0, 2\pi]$  measurable functions  $f(x)$  for which  $M(|f(x)|)$  is integrable. By a certain stipulation of the norm (W. Orlicz, Bull. Acad. Polon. Sci. Ser. A. 8/9 207 (1932))

$$\|f\|_M = \sup_{g(g) \leq 1} \int_0^{2\pi} f(x) g(x) dx$$

$L^M$  becomes an Orlicz space.

Doklady Akad. Nauk 103, 774-776 (1956)

CARD 2/2

PG 36

Let  $s_n(f)$  be the partial sum of the Fourier series of  $f(x)$ . Then the La Vallée-Poussin's sum is defined by

$$\sigma_{n,m}(f) = \frac{s_{n-m}(f) + s_{n-m+1}(f) + \dots + s_n(f)}{m+1}$$

Basing on results and methods of Losinski, the author proves the theorem:

If the function  $M \in \Omega$  stands thus that for every  $f \in L^M$

$$\lim_{n \rightarrow \infty} \|f - \sigma_{n,m}(f)\|_M = 0,$$

then  $M(u)$  necessarily satisfies the condition

$$\lim_{u \rightarrow +\infty} \frac{M(2u)}{M(u)} > 2.$$

The same condition was found by Losinski (Doklady Akad. Nauk 51, 1, (1946)) with respect to the partial sums  $s_n$ .

INSTITUTION: Educational Institute, Leningrad.

BASOVA, N.V.; DEVIYATOV, A.M.; SOLNTSEV, G.S.; SKVORTSOV, P.I.

Calculation of the parameters of a low-pressure plasma in  
neon. Vest. Mosk. un. Ser. 3: Fiz., astron. 18 no.2:37-42  
Mr.-Ap '63. (MIRA 16:6)

1. Kafedra elektroniki Moskovskogo universiteta.  
(Plasma(Ionized gases))

SKVORTSOV, V. P., ed.

ALEKSENKO, G. V.

The installation and testing of high voltage transformers Moskva, Gos. energ. izd-vo, 1933. (Mic 53-318) Collation of the original: 166 p.

Microfilm AC-97

BURMAN, Petr Georgiyevich; KRAYZ, Aleksandr Grigor'yevich; GEL'PERIN,  
B.B., obshchiy red.; SKVORTSOV, P.P., obshchiy red.; TIMOKHINA,  
V.I., red.; VORONIN, K.P., tekhn.red.

[Manufacture of magnetic circuits for transformers] Proizvodstvo  
magnitoprovodov transformatorov. Moskva, Gos.energ.izd-vo, 1959.  
150 p. (Transformatory, no.3). (MIRA 13:2)  
(Electric transformers)

SHNITSER, L.M.; GEL'PERIN, B.B., red.; SKVORTSOV, P.P., red.; TIMOKHINA,  
V.I., red.; ASANOV, P.M., tekhn.red.

[Principles of the theory and capacity of electric transformers]  
Osnovy teorii i nagruzochnaya sposobnost' transformatorov. Izd.5.  
perer. Moskva, Gos.energ.izd-vo, 1959. 230 p. (Transformatory.  
no.1). (MIRA 13:7)

(Electric transformers)

*Shchitany*  
KAGANOVICH, Yevsey Aronovich; TIMOKHINA, V.I., red.; SKVORTSOV, P.P.,  
inzh., red.; GEL'PERIN, B.B., kand.tekhn.nauk, red.; ASANOV,  
P.M., tekhn.red.

[Testing of low and medium power transformers] Ispytanie  
transformatorov maloi i srednei moshchnosti. Moskva, Gos.  
energ.izd-vo, 1959. 239 p. (Transformatory, vyp.2).  
(MIRA 13:3)

(Electric transformers)

ALEKSEENKO, Gennadiy Vasil'yevich; SKVORTSOV, P.P., red.; GEL'PERIN, B.B.,  
red.; TIMOKHINA, V.I., red.; BORUNOV, N.I., tekhn.red.

[Parallel operation of transformers] Parallel'naya rabota trans-  
formatorov. Moskva, Gos.energ.izd-vo, 1960. 342 p. (Transformatory,  
no.5). (MIRA 13:7)

(Electric transformers)

ANSHIN, Vladimir Shayevich; KRAYZ, Aleksandr Grigor'yevich; GEL'PERIN, B.B., red.; SKVORTSOV, P.P., red.; TIMOKHINA, V.I., red.; VORONIN, K.P., ~~tekhn:red.~~

[Assembly of large transformers] Sbornka moshchnykh transformatorov. Moskva, Gos.energ.izd-vo, 1961. 463 p. (Transformatory, no.6). (MIRA 14:4)

1. Moskovskiy elektrozavod imeni V.V.Kuybysheva (for Anshin, Krayz). (Electric transformers)

ALEKSENKO, Gennadiy Yefimovich; Ashryatov Ali;  
SOLOMONOVICH, Frid Yefim; GIL'PERIN, B.B., red.; SKVORTSOV,  
P.P., red.; KRAYZ, A.I., red.; BORUNOV, N.I., tekhn. red.

[Testing of high-voltage power transformers and auto-  
transformers] Ispytaniia vysokovol'tnykh i moshchnykh  
transformatorov i avtotransformatorov. Moskva, Gosenergo-  
izdat. Pt.1. 1962. 671 p. (Transformatory, no.8)

(MIRA 16:10)

(Electric transformers--Testing)

~~SKYORTSOV~~ P.V., dots.

Prevention of ground freezing in open-cut mines. Nauch. trudy MGI  
no.26:117-127 '59. (MIRA 13:11)  
(Strip mining) (Frozen ground)

GUSHCHIN, V.V., gornyy inzh.; LITVINOV, I.D., gornyy inzh.; MITROPANOV,  
I.K., gornyy inzh.; NOVOZHILOV, M.G., gornyy inzh.; POLYAKOV, V.G.,  
gornyy inzh.; SKVORTSOV, P.V., gornyy inzh.

"Mining handbook," vol. 1: Strip mining. Reviewed by V.V.Gushchin  
and others. Gor.zhur. no.4:76-77 Ap '61. (MIRA 14:4)  
(Strip mining--Handbooks)

SKVORTSOV, Petr Vasil'yevich, dots.; RZHEVSKIY, V.V., rev. red.

[Technology and overall mechanization of the open-pit  
mining of coal, ores, and rock products] Tekhnologiya i  
kompleksnaya mekhanizatsiya otkrytoi dobychi uglia, rud  
i nerudnykh iskopnykh. Moskva, Mosk. in-t radielektro-  
niki i gornoi elektromekhaniki. No.7. Pt.1. 1963. 36 p.  
(MIRA 17:11)

DEK VORTSOV, S. A.

Installation and maintenance of blowing and suction equipment and pumps in electric power stations 2. izd. Moskva, Gos. energ. izd-vo, 1946. (Mic 53-96)

231 p.

DEK VORTSOV, S. A. Ustroistvo...1946. (Card 2, Mic 53-96)

Microfilm U-5

SKVORTSOV, S.A.

SUBJECT USSR / PHYSICS  
 AUTHOR FEINBERG, S.M., SKVORTSOV, S.A.  
 TITLE The Economics of Atomic Power.  
 PERIODICAL Atomnaja Energija, 1, fasc. 2, 85 (1956)  
 Issued: 1 / 57

CARD 1 / 1

PA - 1723

Here the prices charged for atomic energy, which were published by other journals, are compared with one another. The following problems are discussed: Building costs connected with the generation of electric energy; costs of fuel and auxiliary material; the capital cost of equipping a nuclear power plant in dependence of the type of reactor; nuclear fuel cycles and the cost of fuel.

Besides, the costs of electric energy generated in the nuclear power plant are discussed in a general manner.

The cost of atomic current amounts to a maximum of 0,88-1,54 Cents/kWh; these are the costs connected with a thermal reactor with graphite as a moderator and with gas cooling. The costs of a thermal reactor with water as a coolant and as a moderator are between 0,34 and 0,7 Cents/kWh. The costs of a breeder reactor, on the other hand, are between 0,52 and 1,20 Cents/kWh in the case of operation with fast neutrons, and between 0,52 and 0.77 Cents/kWh in the case of operation with slow neutrons.

INSTITUTION:

~~SKVORTSOV, S.A.~~

SKVORTSOV, S.A., kandidat tekhnicheskikh nauk (Moskva).

~~Energy of the future~~ ("Nuclear energy" by D.I. Voskoboinik.

Reviewed by S.A. Skvortsov). Priroda 46 no.5:117-118 May '57.

(Atomic power)

(Voskoboinik, D.I.)

(MLRA 10:6)

SKVORCOV, S.A. [Skvortsov, S.A.]; CHAMRAD, B. [translator]

Pressure water power reactors in the Soviet Union. Jaderna  
energije 4 no.11:321-330 N '58.

SKVORTSOV, Sergey Aleksandrovich

"Pressure Water Power Reactors in the USSR", and "Fuel Elements for Light Water Cooled and Moderated Reactors of Atomic Power Stations" (papers to be presented at 1958 UN "Atoms-for-Peace" Conference, Geneva).

*SKVORTSOV, S. A.*

AMBARTSUMYAN, R. S., GLUKHOV, A. M., GOCHAROV, D. V., KOVALEV, A. I. and SKVORTSOV,  
S. A.

"Fuel Elements for Light Water Cooled and Moderated Reactors of Atomic Power Stations."

paper to be presented at 2nd UN Intl. Cong. on the peaceful uses of Atomic Energy, Geneva, 1 - 13 Sept 58.

AUTHOR: Skvortsov, S. A.

SOV/89-1-15

TITLE: Water-Water Power Reactors (VVER) in the USSR (Voda-vodnyye energeticheskiye reaktory (VVER) v SSSR)

PERIODICAL: Atomnaya energiya, 1958, Vol. 5, Nr 3, pp. 245-256 (USSR)

ABSTRACT: In the above mentioned reactor ordinary water is used both as a moderator and as a coolant. Data:

Thermal output	760 MW
Gross efficiency	27,6 %
Measurements of boiler	diameter 3 m, height 2,5 m
Arrangement of fuel elements	regular hexagon
Distance between fuel containers	3 mm
Lattice arrangement	equilateral triangle
Lattice spacing	147 mm
Number of containers	343
Number of containers for safety rods	6
Fuel elements	outside diameter 10,2, inside diameter 8,8mm. 91 elements in one fuel chamber

Card 1/1

# Water-Water Power Reactors (VVER) in the USSR

SOV/89-4-3-15

Fuel material

Canning material for fuel elements and  
fuel containers

Enrichment level  
Average life

sintered  $UO_2$

zirconium alloyed  
with niobium

1,5 %  $U^{235}$

1 1/2 years; a re-  
charge takes place  
every six months

Total weight of first charge

23 enriched uranium,  
17 natural uranium

Input temperature of water

250 °C

Output temperature of water

275 °C

Steam pressure

100 atm

Quantity of steam produced per hour

27 500 m<sup>3</sup>

Volume of active zone

17,6 m<sup>3</sup>

Specific power output per unit of volume

1,18 MW/m<sup>3</sup>

Average thermal load

225.10<sup>3</sup> kcal/m<sup>2</sup>/h

The reactor is constructed in such a manner that the operation  
of steam in the active zone of the reactor is impossible. It is  
nevertheless possible to investigate the behavior of this type

Card 2/4

Water-Water Power Reactors (VVER) in the USSR

SOV/89-5-3-4/15

of reactor in the boiling state. 7 different circuit diagrams are discussed theoretically, and the characteristic features of the different varieties are compared in a table. Comparison shows that by making use of the process of boiling in the reactor no advantage worth mentioning can be attained with respect to the reduction of the size of the reactor or an increase of its output. If boiling is permitted at all, then it must be surface boiling because it causes no noticeable deterioration of the physical properties of the reactor. Among the variants with volume-boiling that in which forced circulation is used and in which half of the generated heat is emitted in the steam generator appears to be promising. There are 8 figures, 3 tables, and 7 references, 5 of which are Soviet.

Card 3/3

AUTHORS: Vlasov, N. A., Skvortsov, S. A. SOV/89-5-4-15/24

TITLE: Physico-Technical Institutions of Norway (Fiziko-  
tekhnicheskiye uchrezhdeniya Norvegii)

PERIODICAL: Atomnaya energiya, 1958, Vol 5, Nr 4, pp 468-471 (USSR)

ABSTRACT: A Soviet delegation, invited by the director of the Norwegian-  
Dutch Atomic Institute, visited Norway in May 1958. The Soviet  
delegation consisted of: I. I. Afrikantov, N. A. Vlasov, and  
S. A. Skvortsov.  
The authors give a detailed report on this visit.  
There are 3 figures.

Card 1/1

POKORISOV, S. A.

21(4)	PHASE I BOOK EXPLOITATION	30V/2583
	International Conference on the Peaceful Uses of Atomic Energy.	
	2nd, Geneva, 1958.	
	Doklady sovetskikh uchenykh; yadernyye reaktory i yadernaya ener-	
	getika. (Reports of Soviet Scientists; Nuclear Reactors and	
	Nuclear Power) Moscow, Akademiya, 1959. 707 p. (Series: Ita;	
	Study, vol. 2) Errata slip inserted. 8,000 copies printed.	
	General Eds.: M.A. Dollezhal, Corresponding Member, USSR Academy of	
	Sciences, A.K. Krasin, Doctor of Physical and Mathematical	
	Sciences, A.I. Leypunsky, Member, Ukrainian SSR Academy of	
	Sciences, I.I. Morozov, Corresponding Member, USSR Academy of Sciences, and V.S.	
	Purov, Doctor of Physical and Mathematical Sciences; Ed.: A.P.	
	Alyab'yev; Tech. Ed.: Ye. I. Mazel.	
	PURPOSE: This book is intended for scientists and engineers engaged	
	in reactor design, as well as for professors and students of	
	higher technical schools where reactor design is taught.	
	COVERAGE: This is the second volume of a six-volume collection on the peaceful	
	use of atomic energy. The six volumes contain the reports pre-	
	sented by Soviet scientists at the Second International Conference	
	on Peaceful Uses of Atomic Energy, held from September 1 to 13,	
	1958 in Geneva. Volume 2 consists of three parts. The first is	
	devoted to atomic power plants under construction in the Soviet	
	Union; the second to experimental and research reactors; the ex-	
	periments carried out on them, and the third to problems of the ex-	
	ploration of the third, which is predominantly theoretical in nature.	
	Atomic reactor engineering and construction engineering. Yu. I.	
	Pyryshkin is the science editor of this volume. See 30V/2081	
	for titles of all volumes of the set. References appear at the	
	end of the articles.	
	Dollezhal, M.A., A.K. Krasin, M.A. Mikhlin, A.M. Orlovskaya,	15
	and V.M. Ushakov. Experiments of Operating the First Atomic Power	
	Plant in the USSR and the Plant's Work Under Boiling Conditions	
	(Report No. 2183)	
	Dollezhal, M.A., A.K. Krasin, P.I. Alekshchenko, A.K. Grigor'yants,	36
	M.V. Piorinskiy, M.V. Krasovskiy, V.Ye. Yemel'yanov, M.M. Puchkov,	
	I.M. Shuravlyov, V.M. Mikhlin, and M.M. Golin. A Graphical	
	Analysis of the Operation of the First Atomic Power Plant Under	
	Boiling Conditions (Report No. 2139)	
	Aleksandrov, A.P., I.I. Afrikantov, A.I. Brandau, A.K. Brandau,	60
	G.I. Glukhov, B.Ye. Gusein, V.I. Morozov, and W.S. Khlopkin.	
	The Atomic Reactor Under Boiling Conditions (Report No. 2140)	
	Glukhov, B.Ye. and V.I. Morozov. Radiation Safety System of	87
	the Atomic Icebreaker (Report No. 2518)	
	Glukhov, B.Ye. Water-water Power Reactors (VVER) in the USSR (Q5	
	(Report No. 2184)	
	Aleksandrov, A.P., A.M. Glukhov, V.V. Goncharenko, A.I. Kovalov,	119
	and B.A. Severinov. Heat-producing Elements for Water-water	
	Reactors of Atomic Power Plants (Report No. 2196)	
	Glukhov, B.Ye. and V.I. Morozov. Cooling Water-water Reactors	134
	(Report No. 2184)	
	Yemel'yanov, M.M. and V.I. Morozov. A Study of Unsteady Heat Trans-	153
	fer in Heat-producing Elements of Nuclear Reactors (Report	
	No. 2470)	
	Ivanovskiy, M.M., V.I. Subbotin, and B.A. Shukov. High-speed	166
	Method of Measuring the Heat Transfer Coefficient in the Pipe	
	(Report No. 2475)	
	Pyryshkin, Y.I., V.I. Subbotin, V.M. Borisenko, and P. L.	176
	Pyryshkin. Heat Exchange During the Flow of Liquid Metal in the	
	Pipes (Report No. 2210)	
	Krasovskiy, M.M. Economics of Nuclear Fuel in Fast Power Re-	188
	actors (Report No. 2028)	
	Mikhlin, V.M., A.A. Krasovskiy, M.I. Sidorov, and O.V. Shvedov.	
	Thermal Neutron Density Distribution Along the Radius of	
	Assemblies of Rod-shaped Heat Producing Elements (Report	
	No. 2034)	199

KHIZHNYAKOV, Sergey Vasil'yevich; SKVORTSOV, Sergey Aleksandrovich,  
red.; MATVEYEV, G.I., tekhn.red.; LARIONOV, G.Ie., tekhn.red.

[Practical calculations of heat insulation in industrial  
apparatus and piping] Prakticheskie raschety teplovoi  
izoliatsii promyshlennogo oborudovaniia i truboprovodov.  
Moskva, Gos.energ.izd-vo, 1959. 125 p. (MIRA 12:9)  
(Insulation (Heat))

MIKHEYEV, Mikhail Aleksandrovich; MIKHEYEVA, Irina Mikhaylovna;  
SKVORTSOV, S.A., red.; BORUNOV, N.I., tekhn. red.

[Brief course in heat transfer] Kratkii kurs teploperedachi.  
Moskva, Gos.energ.izd-vo, 1960. 206 p. (MIRA 15:2)  
(Heat—Transmission)

CHECHETKIN, Aleksandr Vasil'yevich; SKVORTSOV, S.A., kand. tekhn.  
nauk, retsenzent; SHERSTNEV, I.Ya., red.; FRIDKIN, L.M.,  
tekhn. red.

[High-temperature heat-transfer agents] Vysokotemperaturnye  
teplonositeli. Izd.2., perer. i dop. Moskva, Gosenergo-  
izdat, 1962. 423 p. (MIRA 15:12)  
(Heat—Transmission)

SKVORTSOV, S.A.

Atomic power plants. Trudy Inst.fiz.AN Gruz.SSR 8:15-23 '62.  
(MIRA 16:2)

(Atomic power plants)

KALAFATI, Dmitriy Dmitriyevich; SKVORTSOV, S.A., retsenzent;  
KAZACHKOVSKIY, O.D., retsenzent; BAGDASAROV, Yu.Ye.,  
retsenzent; KUZNETSOV, I.A., retsenzent; KORYAKIN, Yu.I.,  
red.; LARIONOV, G., tekhn. red.

[Thermodynamic cycles of atomic electric power plants]  
Termodinamicheskie tsikly atomnykh elektrostantsii. Moskva,  
Gosenergoizdat, 1963. 279 p. (MIRA 16:4)  
(Thermodynamics) (Atomic power plants)

KRASNOSHCHIEKOV, Yevgeniy Aleksandrovich; SUKOMEL, Aleksandr Semenovich;  
SKVORTSOV, S.A., red.; LARIONOV, G.Ye., tekhn. red.

[Textbook on heat transfer] Zadachnik po teploperedache. Mo-  
skva, Gosenergoizdat, 1963. 222 p. (MIRA 16:7)  
(Heat--Transmission)

SKVORTSOV, Sergey Aleksandrovich; LABUNTSOV, D.A., red.

[Heat transmission] Teploperedacha. Moskva, Energiia,  
1964. 110 p. (Biblioteka teplotekhnika, no.12)  
(MIRA 18:3)

L 23074-65 EWT(m)/EPF(c)/EPF(n)-2/EPR Pr-Li/Ps-Li/Pu-Li

ACCESSION NR: AP5001264

S/0089/64/017/006/0427/0439 5/13

AUTHOR: Kramarov, A. Ya.; Markov, Yu. V.; Skvortsov, S. A.; Denisov, V. P.;  
Kulikov, Ye. V.; Sorokin, Yu. P.; Stekol'nikov, V. V.; Khokhlachev, A. A.;  
Tatarnikov, V. P.; Sidorenko, V. A.

TITLE: Some trends in the development of the second Voronezh power reactor 19

SOURCE: Atomnaya energiya, v. 17, no. 6, 1964, 427-439

TOPIC TAGS: power reactor, water cooled reactor, water moderated reactor,  
reactor economy, second Voronezh power reactor

ABSTRACT: The paper is a summary of the SSSR #304 report at the Third International Conference on Peaceful Uses of Atomic Energy in Geneva, 1964. The first Voronezh reactor, of 210 Mw (elect.), was described earlier (S. A. Skvortsov, Transactions of the Second International Conf., 1959). This reactor is now being readied for exploitation. The second Voronezh reactor, of 365 Mw (elect.) is under construction. The water pressure will be 120 atm. Water is used as mod-

Card 1/2

L 23074-65  
ACCESSION NR: AP5001264

erator and for the heat transfer. During the operation of about 2 years, fuel consumption is about 30,000 Mw-day/tons of uranium. The second reactor is a modernization of the first reactor. Details are given of the construction, and the effects of various characteristics on the exploitation cost are estimated. Orig. art. has: 7 figures

ASSOCIATION: None

SUBMITTED: 00

ENCL: 00

SUB CODE: NP

NR REF SOV: 005

OTHER: 003

Card 2/2

SEVERIDOV, G. B.

"Remote measurement of Discharge During Flow Under a Gate." Cand  
Tech Sci, All-Union Sci and Inst of Hydraulic Engineering and Soil  
Improvement, Moscow, 1954. (RZhTech, Sep 54.)

SC: Sur 442, 20 Mar 55

YEFREMYCHEV, V.I.; SKVORTSOV, S.B.

Resistance of a cable towed behind the ship. Trudy NIIGMP  
no.8:30-54 '59. (MIRA 13:4)  
(Cables) (Hydrodynamics)

DATE: 11/11/2010, TIME: 11:11 AM, PAGE: 1

new secure communications concept for hybrid tactical  
controlling systems. Study REPORT D.117-491 '64. (INFO 18:2)

(1974-1975)

L 01084-67 EWT(m)/ENP(j) IJP(c) RM  
 ACC NR: AP6026310 (A) SOURCE CODE: UR/0113/66/000/005/0013/0015 35  
 AUTHOR: Gel'fgat, D. B. (Candidate of technical sciences); Davlyudov, L. O.; 32  
 Skvortsov, S. B. (Candidate of technical sciences) B  
 ORG: NAMI  
 TITLE: A method for stand-testing automobile body vibrations QM  
 SOURCE: Avtomobil'naya promyshlennost', no. 5, 1966, 13-15  
 TOPIC TAGS: highway vehicle data, flexural vibration, torsional vibration, vibration test, MOTOR VEHICLE  
 ABSTRACT: The authors describe a method developed at NAMI for studying the natural frequencies of vibrations in a compact automobile body. The method was used for stand-testing the "Moskvich-407" automobile body. The tires were removed from the automobile to eliminate distortions in instrument readings due to resonance of components not supported by springs. The car was held 1.5 m above floor level. Epoxy glue was used for fastening the pickup holders to the support members of the frame and the body panels. The pickups were then threaded into these holders. The vibrator is made in two independent sections for generating directed forces. These sections are interconnected by a shaft and put into motion by a 2.3 kw DC electric motor through a flexible shaft. Motor speed is controllable from 0 to 5500 rpm by varying the supply voltage.

UDC: 629.11.011.5:62-752.001.4

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ACC NR: AP6026310

3  
This corresponds to a frequency range of about 0-90 cps. The overall weight of the vibrator is about 35 kg. A connecting shaft and clutch may be used for connecting both sections of the vibrator in phase or antiphase. In the first case, flexural vibrations are generated and torsional vibrations result in the second case. An IV-1 vibration measuring instrument developed at NAMI was used for determining vibrational accelerations and displacements at various points on the automobile. An N-102 oscillograph was used for recording the readings. Barium titanate <sup>20</sup> VZU-3 piezoelectric transducers were used as the primary pickups. The "Moskvich-407" automobile was tested in two stages for body vibrations in the 7-35 and 35-90 cps ranges. The results show flexural vibrations of 26-27 cps and torsional vibrations of 20-22 cps. Curves are given showing the amplitude-frequency characteristics at low and high frequencies. A table is given showing the resonance frequencies of various parts of the body. A number of the basic body panels resonate on frequencies close to 80 cps which explains the reduction in the comfort index of the automobile when type R tires are used which have resonance frequencies close to this value. Orig. art. has: 4 figures, 2 tables.

SUB CODE: 13/ SUBM DATE: None/ ORIG REF: 001/ OTH REF: 002

Card 2/2 vlr

USSR/Engineering - Hydraulics, Methods Nov 51

"Experiment on Deaeration of Concrete in Hydraulic Engineering Construction," O. A. Gershberg, Cand Tech Sci, S. G. Skvortsov, A. M. Zvenigoro-rodskiy, Engineers

"Gidrotekh Stroi" No 11, pp 14-18

In 1950, for 1st time in Soviet Union, deaeration of concrete was realized on industrial scale under supervision of TsNIPII. (Gen Sci Res Production Testing Lab) of "Stroitel" (Builder) Trust. Discusses methods for deaeration on surface and in layers of concrete blocks and

200786

USSR/Engineering - Hydraulics, Methods Nov 51  
(Contd)

describes equipment. Describes testing for frost resistance and presents comparative results.

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SKVORTSOV, S.G.

SKVORTSOV, S. G.

May 52

USSR/Engineering - Construction Methods

"Vacuum Treatment of the Concrete Surfaces of an Overflow Weir During Construction of the Tsimlyanskaya Hydroelectric Center," A. N. Ganzha, S. B. Pikulik, S. G. Skvortsov, Engineers, Stalin Prize Laureates. "Gidrotekh Stroit" No 5, pp4-6

Describes equipment and procedure used for vacuumizing various portions of weir under construction. Portable vacuum shields were used for horizontal surface. Vacuum-chambers were incorporated into concrete forms for vertical and inclined surfaces more than 25°. Vacuum treatment accelerated setting of concrete, increasing rate of construction works. Vacuum concrete had dense and smooth surface, and acquired better physicomach properties.

230T10

GANZHA, A. N., Eng.; PIKULIK, S. B., Eng.; SKVORTSOV, S. G., Eng.

Dams

Degeneration of concrete surfaces of the spillway dam of the Tsimlyansk hydro development. Gidr. stroi. 21 no. 5, 1952.

Monthly List of Russian Accessions, Library of Congress, September 1952. UNCLASSIFIED.

SKVORTSOV, S.G., inzhener.

Vacuum treatment of a reinforced concrete parapet. Gidr.stroi. 22 no.8:5-8  
Ag '53. (MLRA 6:8)

(Concrete, Reinforced)

SKVO TSOV, SERAFIM GRIGOR'YEVICH.

Epp  
.R01568

Vakuumirovaniye betona v stroitel'stve. Vacuumization of concrete in construction.  
Moskva, Gosstroyizdat, 1955.  
135 P. illus., diagsr.

SKVORTSOV, Serafim Grigor'yevich, laureat Stalinskoy premii. ~~UTIM, A.A.~~  
~~Inzhener, redaktor;~~ UDOD, V.Ya, redaktor; PERSON, M.N., tekhnicheskiiy redaktor.

[Hermetic sealing of concrete in construction work] Vakuumirovanie  
betona v stroitel'stve. Moskva, Gos.izd-vo lit-ry po stroitel'stvu i arkhitekture, 1955. 135 p. (MLRA 8:11)  
(Concrete construction)

KIKOTI, G.P., inzhener; SKVORTSOV, S.G., inzhener; ORENTLIKHER, L.P., inzhener;  
DANILOV, N.N., inzhener; FOMIN, F.M., inzhener.

Making large panel wall slabs from gypsum concrete in vertical  
forms using vibration drainage and vacuum processes. Rate. 1  
izebr.predl.v strei. no.121:12-17 '55. (MIRA 9:7)

- 1.Trest "Streitel" (for Kikoti, Skvertsov, Orentlikher, Danilev)
- 2.Trest Tsentrestankestroy (for Fomin, Debrzhanskiy).  
(Walls) (Concrete slabs)

SKVORTSOV, S.G., inzh.; BYKOVSKIY, G.P., inzh.; VASINA, I.N., inzh.; VORONIN,  
A.D., inzh.; GEL'BSHTEYN, I.V., inzh.; POLYAKOV, L.L., inzh.;  
GRECHUSHNIKOV, G.A., inzh., red.

[Catalog of designs of stands, construction yards, equipment and  
devices for making prestressed reinforced concrete elements]  
Al'bom-katalog proektov stendov i poligonov, oborudovaniia i  
prispособlenii dlia izgotovleniia predvaritel'no napriazhennykh  
zhelezobetonnykh konstrukttsii. Moskva, TSentr. biuro tekhn. inform.  
No. NZh-2. 1957. 118 p. (MIRA 11:10)

1. Akademiya stroitel'stva i arkhitektury SSSR. Nauchno-issledo-  
vatel'skiy institut tekhnicheskoy pomoshchi stroitel'stvu.  
(Prestressed concrete)

SKVORTSOV, S., inzh.

How to determine tension differences in wire units. Stroitel'  
no.6:33 Ja '58. (MIRA 11:7)

(Prestressed concrete--Testing)

L 3974-66 EWT(d)/EWT(1)/EWP(c)/EWP(v)/T/EWP(k)/EWP(1)/EWA(h) WW

ACCESSION NR: AP5020923

UR/0142/65/008/003/0317/0321  
612.375.1

AUTHOR: Baranov, I. M.; Skvortsov, S. M.; Sokolov, I. M.

TITLE: One procedure for checking the amplitude characteristics of logarithmic amplifiers 25

SOURCE: IVUZ. Radiotekhnika, v. 8, no. 3, 1965, 317-321

TOPIC TAGS: electronic amplifier, amplitude modulation, quality control.

ABSTRACT: The logarithmic amplitude characteristic (LAC) of logarithmic amplifiers can be taken by using the following methods: high-precision instruments; measuring the envelope of sinusoidally modulated voltage; a high-precision attenuator. These methods all yield a relative error of linearity of the LAC on the order of 5-10%, depending on instrument accuracy. (The LAC plotted on semi-log paper should be a straight line.) The authors propose a new method yielding the same order of accuracy as the above methods but permitting the LAC to be taken comparatively rapidly. Thus it can be used for semiautomatic industrial quality control of logarithmic amplifiers, checking the LAC, and regulating the amplifiers. The

Card 1/2

PC  
Card 2/2

APPROVED FOR RELEASE

SKVORTSOV, S. N.

25847

K chemu privodit verkhoglaydstvo v poleza shchitnom lesorazvedenii. (S. primech, red) Selertsia i semenovodstvo, 1949, No. 8, s. 43-45.

6. Zhivotnovodstvo.

SO: Letopis' No. 34

SKVORTSOV, S N

M-2

USSR/Cultivable Plants - Grains.

Abs Jour : Ref Zhur - Biol., No 3, 1958, 10746 K.

Author : Tsedik-Tomashevich, Z.F., Skvortsov, S.N., Edit.

Inst : -

Title : Corn in 1955. No 6. The Rayons of the South of the USSR.

Orig Pub : Moskva, Sel'khozgiz, 182 pp., illus., 4 rubles 30 kopecks.

Abstract : No abstract.

Card 1/1

TSEDIK-TOMASHEVICH, Z.F., kandidat biologicheskikh nauk; SKVORTSOV, S.N.;  
KAVUN, P.K., redaktor; PEVZNER, V.I., tekhnicheskiiy redaktor

[Corn in 1955] Kukuza v 1955 godu. Moskva, Gos. izd-vo selkhoz.  
lit-ry. No.3. [Southern districts of the U.S.S.R.] Raiony iuga  
SSSR. 1956. 380 p. (MIRA 9:9)

1. Nachal'nik otdela rastenevodstva Glavnogo upravleniya sel'sko-  
khozyaystvennoy nauki Ministerstva sel'skogo khozyaystva SSSR  
(for TSedik-Tomashevich) 2. Glavnyy agronom otdela rasteniyevod-  
stva (for Skvortsov)  
(Russia, Southern--Corn (Maize))

CATEGORY : Cultivated Plants - Cereals

ABS. JOUR. : RZBiol., No. 19, 1958 No. 86970

AUTHOR : Semenov, S. N.

TITLE : Methods of Production and Evaluation of  
Select Seeds of Grain Crops

ORIG. PUB. : Selektsiya i semenovodstvo, 1956, No 5,  
20-23

ABSTRACT : The author has made a study of data, relating to a period of many years, of comparative tests of select seeds, versus seeds of other propagation, of grain crops, at 40 selection-experiment stations and scientific-research institutes, and also at a large number of test plots. To improve work on testing of selects, the following is recommended: a mandatory schedule of annual testing of select seeds and publication of results of these tests. Selects should be compared with seeds of 1st reproduction. In taking seeds for testing the same rules should be observed as those applying to sampling, at collective farms of specimens forwarded to seed-control laboratories.  
S. N. Chernov.

CARD://

SKVORTSOV, S. N.

USSR/Cultivated Plants - Grains.

M-2

Abs Jour : Ref Zhur - Biol., No 20, 1958, 91594

Author : Skvortsov, S.N.

Inst : -

Title : Sowing with Large, Uniform Seeds.

Orig Pub : Nauka i peredov. opyt v s.kh., 1957, No 2, 39-40.

Abstract : The results of tests made at many selection stations on the effectiveness of sowing grain crops with large-seed fractions are presented. The increase in yield reached 3, and in some cases, 6 - 7 centner/hectare. The author considers it useful to mix the large seeds of uniform fractions of different origins before sowing, assuming that this would contribute to the creation of a more vital strain with greater adaptability, thus providing increased yield and enhanced quality in grain production. -- G.N. Chernov.

Card 1/1

COMMON ELEMENTS										COMMON VARIABLES INDEX									
1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
PROCESSES AND PROPERTIES INDEX																			
CA																			
<p><b>Production of 2-furaldehyde from hardwood S. O.</b></p> <p>Skravitsky, G. A. Kan and D. I. El'kin. <i>Lesokhim. Prom.</i> 6, No. 1, 18 (2011938); <i>Khim. Referat. Zhur.</i> 2, No. 3, 126.</p> <p>- Finely divided wood, e. g., sawdust, is autoclaved with 10% H<sub>2</sub>SO<sub>4</sub> soln. in an amt. equal to 30-50% of the wt. of the dry substance at 4-5 atm. For each ton of the 2-furaldehyde there are obtained as by-products 0.8 ton of acetate powder, 0.1 ton of volatile substances (CH<sub>3</sub>OH, CH<sub>3</sub>OCH<sub>3</sub>) and 40 tons of the hydrolyzed residue contg. 55% moisture, which can be utilized as a fuel. The cost of the furaldehyde is less than that from waste products of agriculture.</p> <p style="text-align: right;">W. R. Henn</p>																			
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION																			
ECONOMICS										ECONOMICS									
ECONOMICS										ECONOMICS									

1. SHORPLOS, S. O. : KAPURIN, V. KH. : ENGJ.
2. UDM (600)
4. Wood Alcohol
7. Continuous method for producing methyl alcohol solvents. Der. i lesokhim. prom. 1 no. 3. 1952.
9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

1. YEL'KIN, D. I., SKVORTSOV, S. O.
2. USSR (600)
4. Trioxymethylene
7. Production and use of paraform.  
Der. i lesokhim. prom. 1 No. 6, 1952
9. Monthly List of Russian Accessions, Library of Congress, March 1953, Uncl.

SKVORTSOV; S. O.; Engr.

Wood Distillation

Recovery of volatile products from the dry distillation of wood,  
Der. i lesokhim. prom. 1 No. 8, 1952

Monthly List of Russian Accessions, Library of Congress, June 1953. Uncl.

SKVORTSOV, ~~the~~  
S.O.

✓Gordon, L. V., Fedlev, V. V., Skvortsov, S. O., and  
Atamanchukov, G. D.: Tekhnologiya khimicheskikh  
proizvodstv. (Technology of Forest-Chemical Products).  
Moscow: Goslesbumizdat. 1953. 431 pp. 11 R. Re-  
viewed in *Derevopereobratnyushchaya i Lesokhimiya*. Prom.  
3, No. 1, 1954.

SKVORTSOV, S. O., Eng.

Wood Alcohol

Asha Wood-Chemistry-Combine has mastered the production of high-grade methanol.  
Der. i lesokhim. prom 2 No. 4, 1953

Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

NAGORNOVA, K.G., inzhener; SKVORTSOV, S.O.

Leading workers of the Syava Wood Chemistry Combine. Der.1 lesokhim.prom.  
2 no.7:25-27 J1 '53. (MLRA 6:5)

1. Sysvskiy lesokhimicheskiy kombinat (Nagornova). 2. Tsentral'nyya nauch-  
no-issledovatel'skaya laboratoriya KhI. (Wood--Chemistry)

EL'KIN, D.I., kandidat ekonomicheskikh nauk; SKVORTSOV, S.O., inzhener.

Technical and economic evaluation of various methods of processing raw methyl alcohol. Der.1 lesokhim.prom.3 no.1:27-30 Ja '54.  
(MLRA 7:2)

1. TsNILKhI.

(Wood alcohol)

SKVORTSOV, S.O., inzhener; GUDIN, Ya.Ya., inzhener.

Increasing the yield of formalin at the Vetluzhskiy wood-chemical  
combine. Der.i lesokhim.prom. 3 no.3:24-26 Mr '54. (MIRA 7:3)

1. TsNILKhI (for Skvortsov). 2. Vetluzhskiy lesokhimicheskiy kombi-  
nat (for Gudin). (Vetluzhskiy--Formaldehyde)  
(Formaldehyde--Vetluzhskiy)

SKVORTSOV, S. O.

SKVORTSOV, S. O. - "Investigations in the Field of Intensification and Rationalization of the Production of Formalin." Leningrad Order of Lenin Forestry-Engineering Academy imeni S. M. Kirov, Moscow, 1955 (Dissertations For Degree of Candidate of Technical Sciences)

SO: Knizhnaya Letopis' No. 26, June 1955, Moscow

SKVORTSOV S.O.

Utilization of methanol and ether-aldehyde fractions.  
A. P. Polyakov and S. O. Skvortsov. *Gidrolis. i. Lesokhim.* Prom. 8, No. 3, 21-24 (1958). The MeOH fraction, as a by-product of EtOH production at hydrolytic and sulfite-alcohol plant, contg. 70-80% of MeOH, 10-20% of EtOH, and 5-10% of ethers and aldehydes, can be fractionated in a continuous process. The distd. mass is neutralized with NaOH, pumped to a sedimentation tank where floating oils sep., and led from there into 3 columns operating in series, the first one being ether-aldehyde, the second exhausting, and the third MeOH column. Ether-aldehyde fraction is then sent through 2 columns. At the top of the first one 70% MeCHO is recovered. The concn. of MeCHO is higher the lower the temp. at the top of the column. At the top of the second column a mixt. of ether and aldehyde is recovered; this material is used as a solvent. In the center of the second column MeOH is recovered in a yield of 80-82%.  
T. Jurecic

①

MA 22

SKVORTSOV, S.O.

How to prevent the oxidation of formaldehyde. Gidroliz. i lesokhim. prom. 8 no.3:30-31 '55. (MIRA 8:9)

1. Ispolnyayushchiy obyazannosti starshego nauchnogo sotrudnika Tsentral'nogo nauchno-issledovatel'skogo lesokhimicheskogo instituta.

(Formaldehyde)

SEVORTSOV, S.O., kandidat tekhnicheskikh nauk.

Diluting methanol in formaldehyde manufacture. Gidroliz. 1 lesekhim. prem.  
9 no.2:24 '56. (MLRA 9:7)  
(Methanol)(Formaldehyde)

SKYORTSOV, S. O.

✓ Separation of 2-furaldehyde and volatile phenols from  
wood resins. N. V. Chalov, L. V. Gordon, and S. O.  
Skyortsov. *Gidrolis. i Lasekhim. Prom.* 9, No. 8, 1950  
(1950). The authors report calcns. and the results of pilot-  
plant expts. in which they succeeded in sepg. by fractional  
distn. raw 2-furaldehyde and phenols from the liquid phase  
obtained in the dry distn. of birchwood. T. Jurcic

Frank

3

88

BM

LM

SKVORTSOV, S.O., kandidat tekhnicheskikh nauk:

Use of pure oxygen as oxidizer. Gidroliz. lesekhim. prom. 9 no. 6:29  
'56. (MIRA 9:10)

1. Tsentral'nyy nauchno-issledovatel'skiy lesekhimicheskiy institut.  
(Formaldehyde) (Oxidation)

SKVORTSOV, S.O., kand. tekhn. nauk.

Stabilization of formalin. Gidroliz. i lesokhim. prom. 9 no.7:29-30  
'56. (MIRA 12:3)

1. Tsentral'nyy nauchno-issledovatel'skiy lesokhimicheskiy institut.  
(Formaldehyde)

SKVORTSOV, S.O.; DANILYUK, P.P.

Air purification in formalin production. Gidroliz.i lesokhim.proz.  
10 no.5:22-23 '57. (MLTA 10:2)

1. Veliko-Bychkovskiy lesokhimicheskii zavod (for Danilyuk).
2. Tsentral'nyy nauchno-issledovatel'skiy lesokhimicheskikh institut.  
(Air--Purification) (Formaldehyde)

SKVORTSOV, S.O.

Further improvements in the production of formalin. Sbor. trud.  
TSNILKHI no.12:113-125 '57. (MIRA 13:10)  
(Formaldehyde) (Methanol)

MELKAYA, Ye.N.; KONOVALOVA, K.I.; GORDON, L.V.; SKVORTSOV, S.O.

Means for increasing production of furfurole oils in wood chemistry plants. *Gidroliz. i lesokhim.prom.* 11 no.8:20-21 ' 58.  
(MIRA 11:12)

1. Syavskiy lesokhimicheskiy kombinat (for Melkaya, Konovalova).
2. Tsentral'nyy nauchno-issledovatel'skiy lesokhimicheskiy institut (for Gordon, Skvortsov).  
(Furaldehyde)

SKVORTSOV, Semen Osipovich; YASINSKIY, B.N., red.; BRATISHKO, L.V.,  
tekh.n.red.

[Progressive practice in the production of formalin] Peredovoi  
opyt v formalinovom proizvodstve. Khimki, Mosk.obl., TSentr.  
nauchno-issl.lesokhim.in-t, 1959. 50 p.  
(Formaldehyde)

(MIRA 13:12)

SKVORTSOV, S.O.; ZABOLOTSKIY, M.V.; POPPE, N.V.

Complete processing of a various kinds of methanol-containing raw  
materials. Sbor.trud. TSNILKHI no.13:72-93 '59. (MIRA 13:10)  
(Methanol) (Wood--Chemistry)

GORDON, Lev Vladimirovich; FEFILOV, Vladislav Vasil'yevich; SKVORTSOV,  
Semen Osipovich; ATAMANCHUKOV, Georgiy Dmitriyevich; PLATUNOV,  
N.A., retsenzent; GHASHCHIN, A.M., retsenzent; LIZUNOV, A.A.,  
inzh., red.; PROTANSKAYA, I.V., red.izd-va; PARAKHINA, N.L.,  
tekhn.red.

[Technology of the wood-chemistry industries] Tekhnologiya leso-  
khimicheskikh proizvodstv. Izd.2., perer. Pod red. A.A.Lizunova.  
Moskva, Goslesbumizdat, 1960. 418 p. (MIRA 14:1)  
(Wood--Chemistry)

~~REDACTED~~

SKVORTSOV, S. P.

SKVORTSOV, S. P., MASLENNIKOV, and ZHMUROV, I. I.  
Zavodskaya Lab. 5, 1220-4 (1936)  
Heat capacity of high-speed tool steel.

CA: 31-174/4

~~REDACTED~~

SKVORTSOV, S. P.

Leningrad

"A Sine Instrument for Grinding Angle Patterns  
on a Surface Grinding Machine" Stanki i Instrument,  
12, No. 1, 1941.

Report U-1503, 4 Oct. 1951

SKVORTSOV, SP.  
ZOTOV, Yu.P., inzhener; ISAYENKO, N.B., inzhener; SKVORTSOV, .SP., inzhener;  
Khrapunovich, M.B., inzhener;

Making and assembling large brick blocks with ceramic facings. [Suggested  
by IU.P.Zotov and others] Rats: i izobr. predl.v stroi. no.151:15-19  
(MLRA 10:3)  
'56.

(Building blocks) (Ceramics)

SKVORTSOV, S.P.

Rare case of anomaly in the structure of the bones or osteopetecilia.  
(MIRA 13:10)  
Med. zhur. Uzb. no. 9:79-80 S '60.

1. Zaveduyushchiy khirurgicheskim otdeleniyem Kaganskoy gorodskoy  
bol'nitsy (glavnyy vrach -- R.Kh.Kil'keyeva).  
(BONES--DISEASES)

ACC NR: 170036/70

SOURCE CODE: UR/0000/66/000/000/0015/0016

AUTHOR: Alatov, Yu. A.; Kovalev, Yo. Yo.; Petrov, V. M.; Skvortsov, S. S.;  
Smirennyy, L. N.

ORG: none

TITLE: Analysis of the results of measurements of cosmic-radiation doses in  
circumterrestrial space [Paper presented at the Conference on Problems of Space  
Medicine held in Moscow from 24-27 May 1966]

SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy  
kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii,  
Moscow, 1966, 15-16

TOPIC TAGS: radiation dosimetry, cosmic radiation, solar flare, thermoluminescent  
dosimeter, radiation shielding, manned spaceflight, photodosimeter, ILK dosimeter

ABSTRACT:

The results of measurements of radiation in space taken at altitudes  
of 200-400 km have been analyzed. Dosimetry was performed by means

Cord 1/3

L 08274-67

ACC NR: AT6036470

3

of thermoluminescent integral dosimeters, ILK plates, and photodosimeters. The composition of radiation was studied using a set of nuclear photoemulsions. Dose measurement and study of the composition of radiation was performed behind polyethylene shielding of varying thickness. In addition, some of the thermoluminescent dosimeters were located behind lead, tin, and cadmium filters.

Polyethylene shielding blocks were spherical, with wall thicknesses of 5, 10, and 15 cm. Sets of dosimeters and photoemulsions were placed inside the shielding blocks as well as outside of them at four different points inside the cabin of the satellite.

The experiments established that the average cosmic-radiation dose amounted to between 16 and 20 mrad/diem. It was found that the thickness of shielding and the filters did not have a significant effect on the size of the dose. The doses obtained are in general agreement with doses obtained earlier on the Vostok spaceships.

Cord 2/3

L 09274-57  
ACC NR: AT6036470

The consistency of the doses obtained during the 1961—1965 period can be explained by the fact that on the trajectories in question the magnetic field of the Earth shields practically all of the low-energy spectrum of galactic radiation. Consequently, the main part of the dose was composed of high-energy particles whose intensity does not depend on solar activity to any great degree. This fact also explains the small changes in dose behind various thicknesses of shielding. [U.A. No. 22; ATD

Report 66-116/

SUB CODE: 22,18,06 / SUBM DATE: 00May66

Cord 3/3 vmb

SKVORTSOV, S. S.																										PROCESSES AND PROPERTIES INDEX																									
<p>Influence of desiccating winds on photosynthesis. S. S. SKVORTSOV. <i>Dokl. Akad. Nauk SSSR</i> (1931).—Dry winds in the absence of sufficient soil water lead to leaf dehydration and retardation or cessation of photosynthesis. If the leaf moisture content is but slightly decreased (30-33%) photosynthesis is immediately resumed upon removal of the plant to a more favorable environment. If the water content decreases 45% or more, a permanent leaf injury results, and photosynthesis is not resumed after watering. Slight leaf injury, such as folding of the midrib, or long keeping in the assimilation chamber produces decreased photosynthesis.</p> <p>Lewis W. Butz</p>																																																			
<p>ASH 55A METALLURGICAL LITERATURE CLASSIFICATION</p>																																																			

SEVORTSOV, S. S.

SEVORTSOV, S. S. "Contribution to the Physiology of *Ustilago tritici*," Itozi Nauchno-Issledovatel'skikh Rabot Vsesoiuznogo Instituta Zashchity Rastenii za 1935 Goda, 1936, pp. 149-150. 423.92 L541

SO: SIRA SI 90-53, 15 Dec. 1953

SKVORTSOV, S. S.

SKVORTSOV, S. S. "The Physiological Diagnosis of Wheat Seed Infected by  
Ustilago tritici," Itogi Nauchno-Issledovatel'skikh Rabot Vsesoiuznogo  
Instituta Zashchity Rastenii za 1935 Goda, part 1, 1937, pp. 87-89 423.92 L541

SO: SIRA IS 90-53, 15 Dec. 1953

SKVORTSOV, S. S.

AM

SKVORTSOV (S. S.). Простой метод обнаружения гриф пыльной  
розыньи в зерне пшеницы. [A simple method for detecting hyphae  
of loose smut in Wheat grains.]—Pl. Prot., Leningr., 1937, 15,  
pp. 90-91, 1937.

The author devised the following method for the detection of myce-  
lium of *Ustilago tritici* in wheat grains. The embryos are separated  
from the grains, macerated in sodium hydroxide, stained with aniline  
blue, and examined under the microscope, where the hyphae appear  
distinctly blue among the almost colourless cells of the embryo.

ASIA SLA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS		3RD AND 4TH ORDERS	
PROCESSES AND PROPERTIES INDEX			
SKVORTSOV, S. S.			
<p>AM</p> <p>SKVORTSOV (S. S.). К физиологии гриба <i>Ustilago tritici</i> (Pers.) Jens. [On the physiology of the fungus <i>Ustilago tritici</i> (Pers.) Jens.]—  <i>Pl. Prot., Leningr.</i>, 1938, 16, pp. 65-78, 10 figs., 1938. [English summary.]</p> <p>The author transferred monospore cultures of <i>Ustilago tritici</i> [R.A.M., xvii, p. 434] on beer wort to various culture media and found that generally the fungus grew best on sterilized slices of potato or carrot, or on potato and carrot agar plus 3 per cent. glucose, the liquid media, with the exception of beer wort (7 per cent. sugar), and the synthetic being less favourable for its development. On solid media the mycelium grew in small, round lumps, which rose above the surface and eventually formed colonies with a granular wrinkled surface, while in liquid media the small lumps remained submerged. The rate of growth was slow, only 0.0049 gm. dry matter being formed after 60 days at 24° C. on Herzberg's liquid and 0.0080 gm. after 45 days on a solid medium. The minimum, optimum, and maximum temperatures for growth were found to be 7° to 9°, 22° to 24°, and 30° to 32°, respectively. The fungus withstood a temperature of 45° for 10 minutes, but was killed by exposure to the same temperature for 20 to 40 minutes, or to 55° for 1 to 5 minutes. It failed to grow on any medium under anaerobic conditions.</p>			
ASTM 3.1A METALLURGICAL LITERATURE CLASSIFICATION			
FROM SYNTHESE		FROM DOMESTIC	
GROUP 1		GROUP 2	
GROUP 3		GROUP 4	
GROUP 5		GROUP 6	
GROUP 7		GROUP 8	
GROUP 9		GROUP 10	
GROUP 11		GROUP 12	
GROUP 13		GROUP 14	
GROUP 15		GROUP 16	
GROUP 17		GROUP 18	
GROUP 19		GROUP 20	
GROUP 21		GROUP 22	
GROUP 23		GROUP 24	
GROUP 25		GROUP 26	
GROUP 27		GROUP 28	
GROUP 29		GROUP 30	
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1-naphthylacetic acid increases the intensity of both dark  
and light phases of photosynthesis by 70-80%, without  
changes of respiration process. After 1 hr. similar treat-  
ment of *Elodea* gave 12% increase of photosynthetic ac-  
tivity even after 24 hrs. (in 72 hrs. the effect vanishes)  
following immersion. G. M. Kosolapoff

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List : Leningrad Agricultural Inst.

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Orig Pub: Zap. Leningr. s.-kh. in-ta, 1956, vyp. 11, 37-42

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